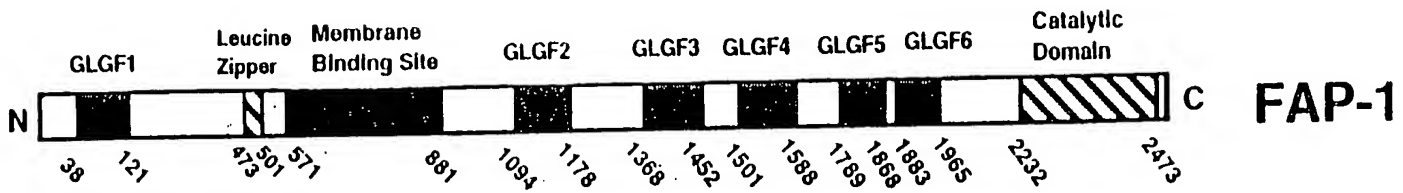
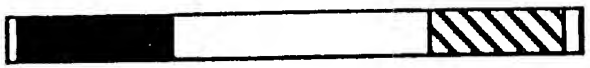
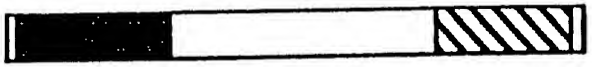
FIG. 1



FAP-1



PTPH1



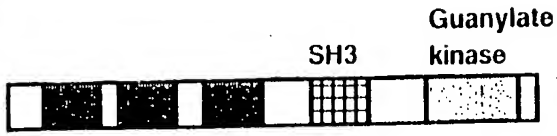
PTP-MEG

Moesin

Radixin

Ezrin

Protein 4.1



PSD-95

dlg

FIG. 2A

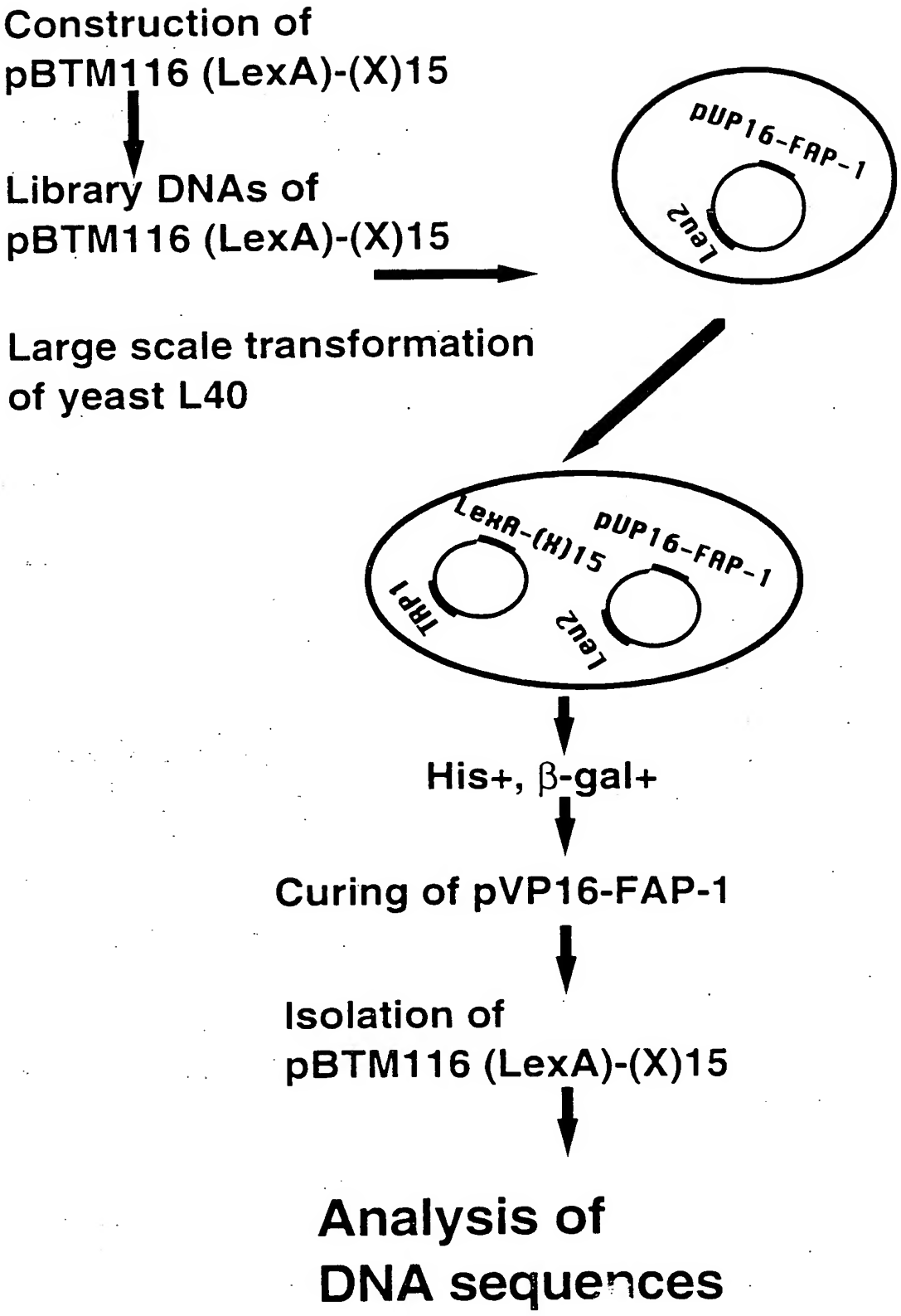

Construction of
pBTM116 (LexA)-(X)15
Library DNAs of
pBTM116 (LexA)-(X)15
pVP16-FAP-1
Leu2
Large scale transformation
of yeast L40
LexA-(X)15
TRP1
pVP16-FAP-1
Leu2
His+, β-gal+
Curing of pVP16-FAP-1
Isolation of
pBTM116 (LexA)-(X)15
Analysis of
DNA sequences

FIG. 2B

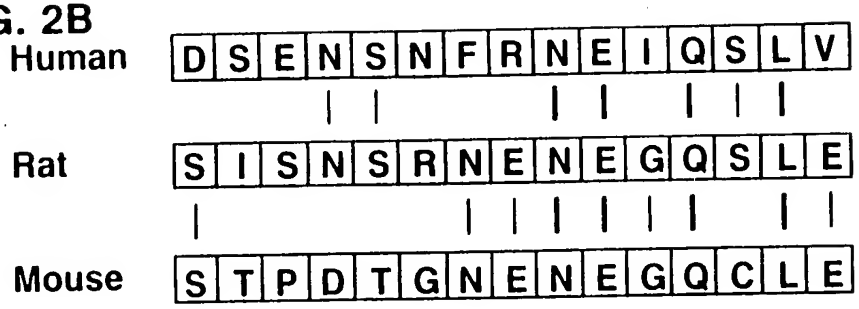
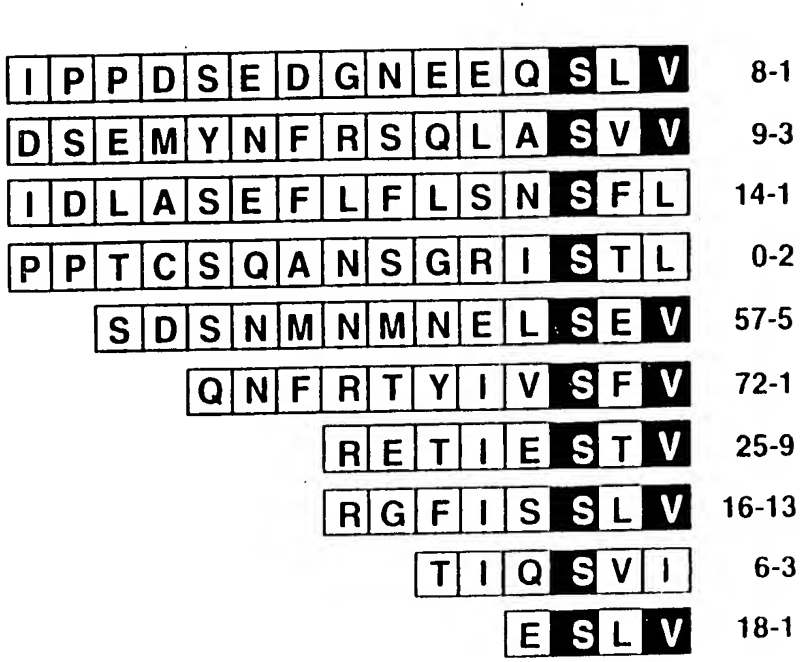


FIG. 2C

FIG. 2D



Consensus: *t* S-X-V/L/I

FIG. 3A

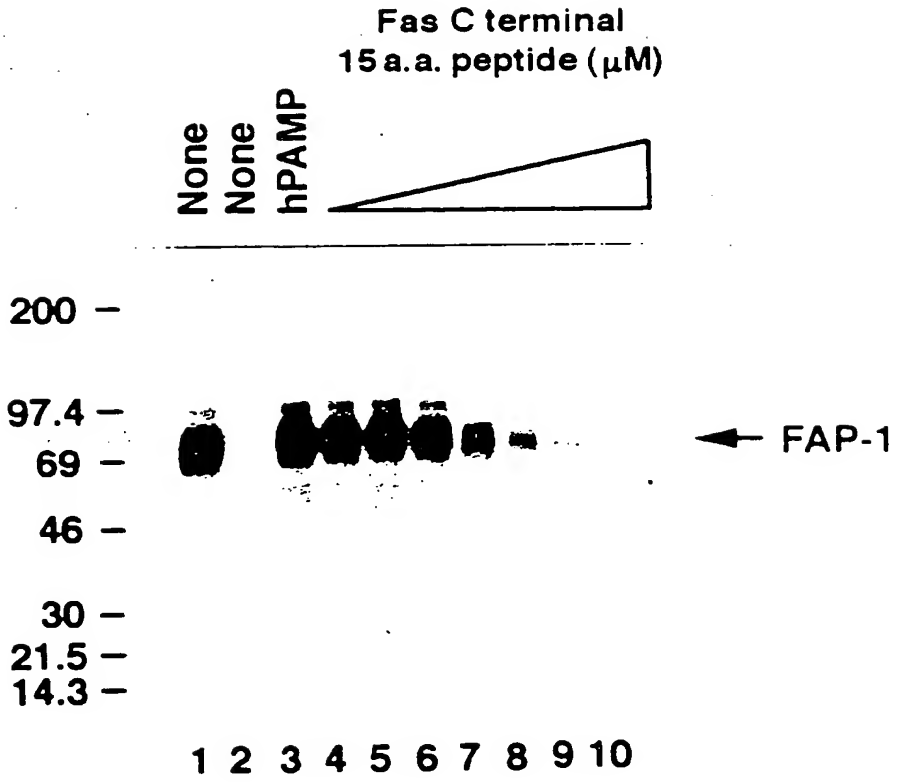

Fas C terminal
15 a.a. peptide (μM)
None
None
hPAMP
200 –
97.4 –
69 –
46 –
30 –
21.5 –
14.3 –
FAP-1
1 2 3 4 5 6 7 8 9 10

FIG. 3B

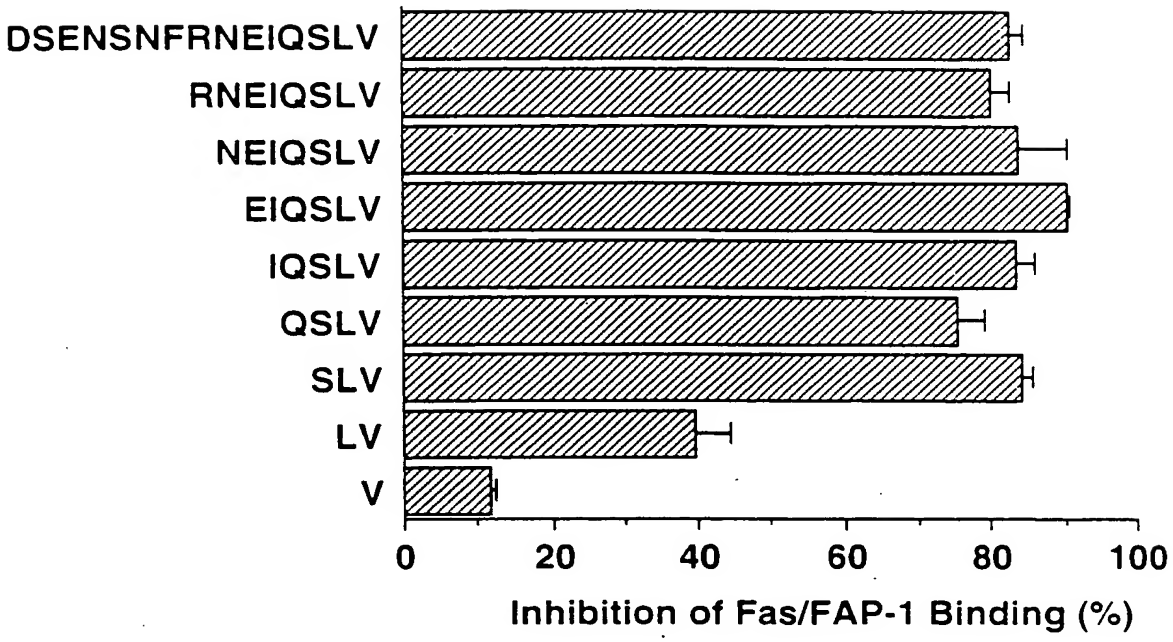


FIG. 3C

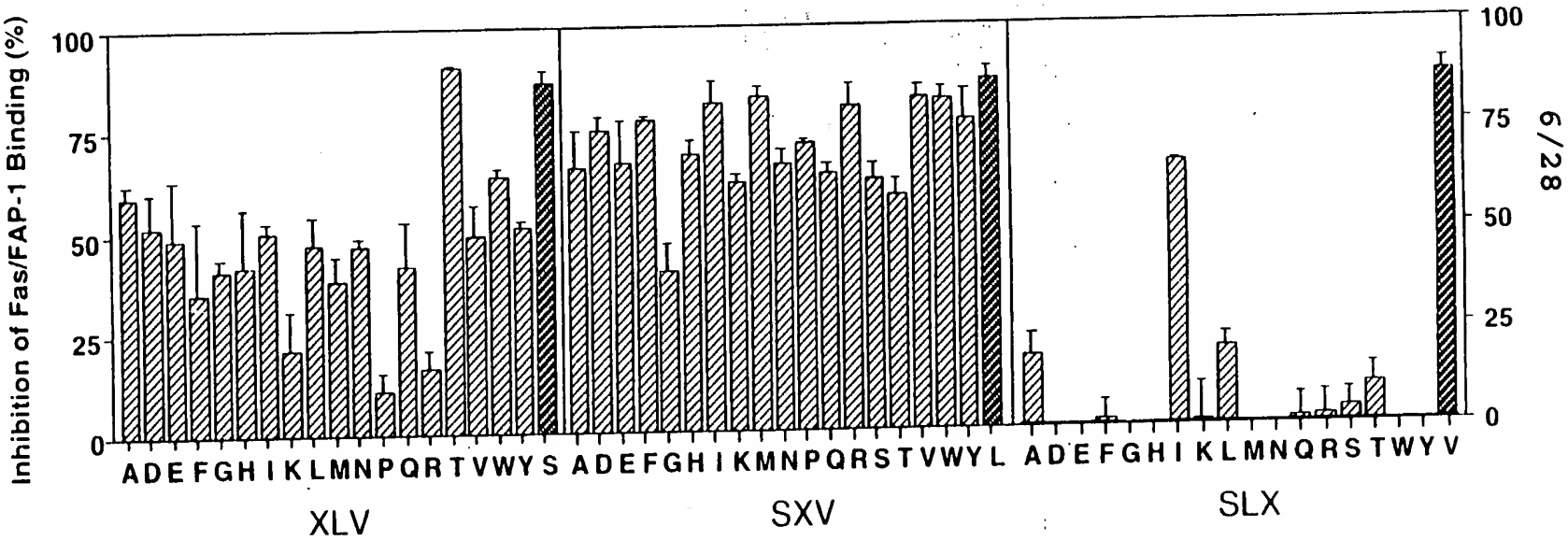


FIG. 4A

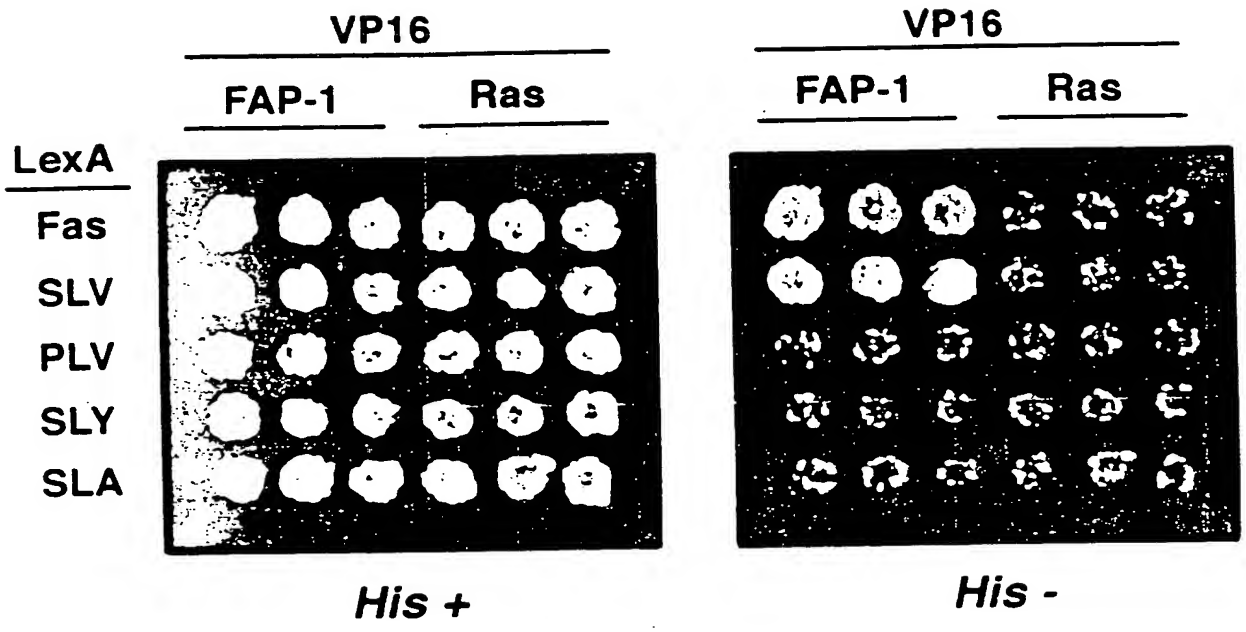


FIG. 4B

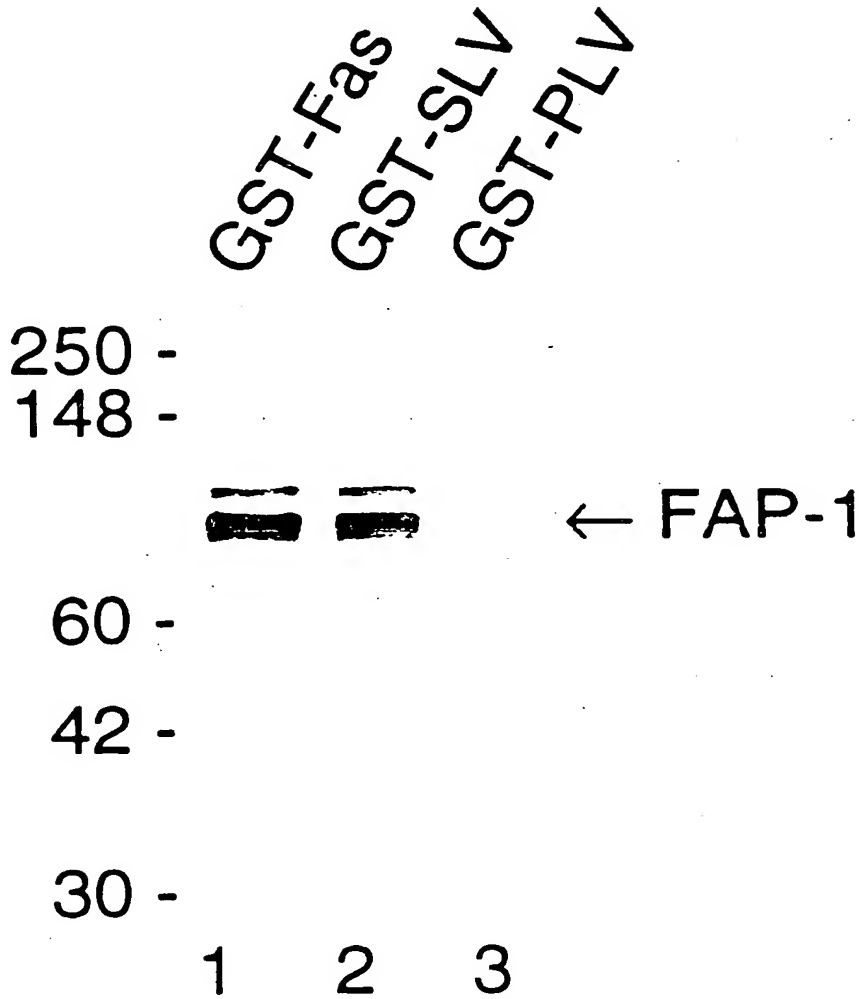


FIG. 4C

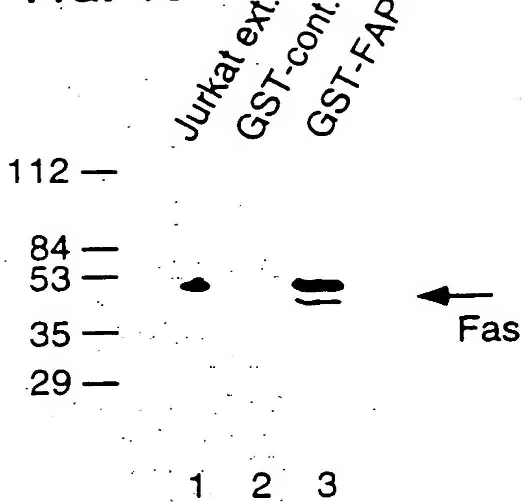
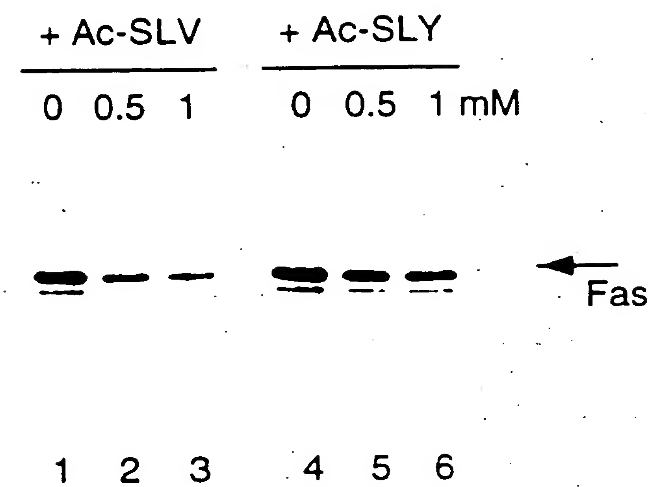

Jurkat ext.
GST-cont.
GST-FAP-1
112
84
53
35
29
Fas
1
2
3

FIG. 4D


+ Ac-SLV
+ Ac-SLY
0
0.5
1
0
0.5
1 mM
Fas
1
2
3
4
5
6

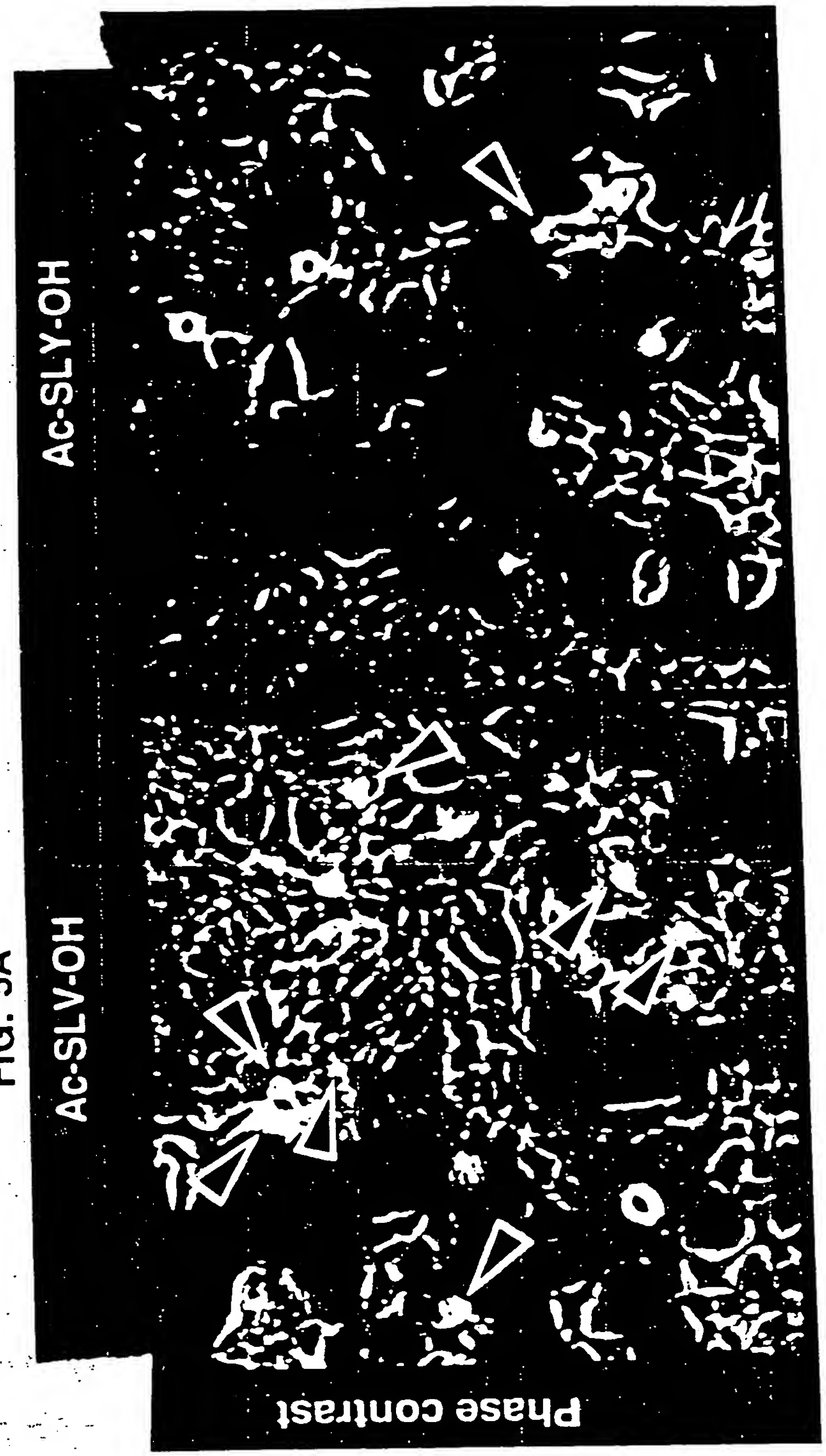


FIG. 5B

FIG. 5A

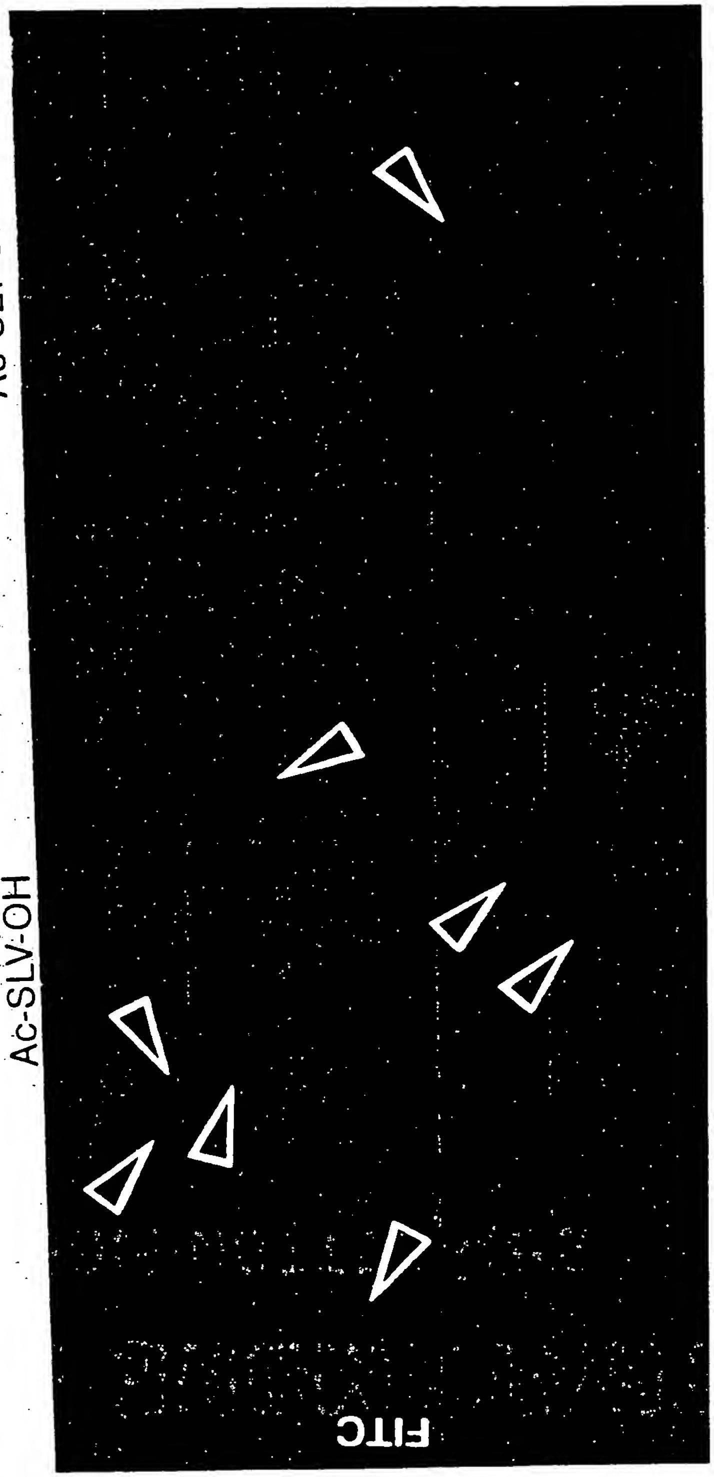


FIG. 5C
Ac-SLV-OH

FIG. 5D
Ac-SLY-OH

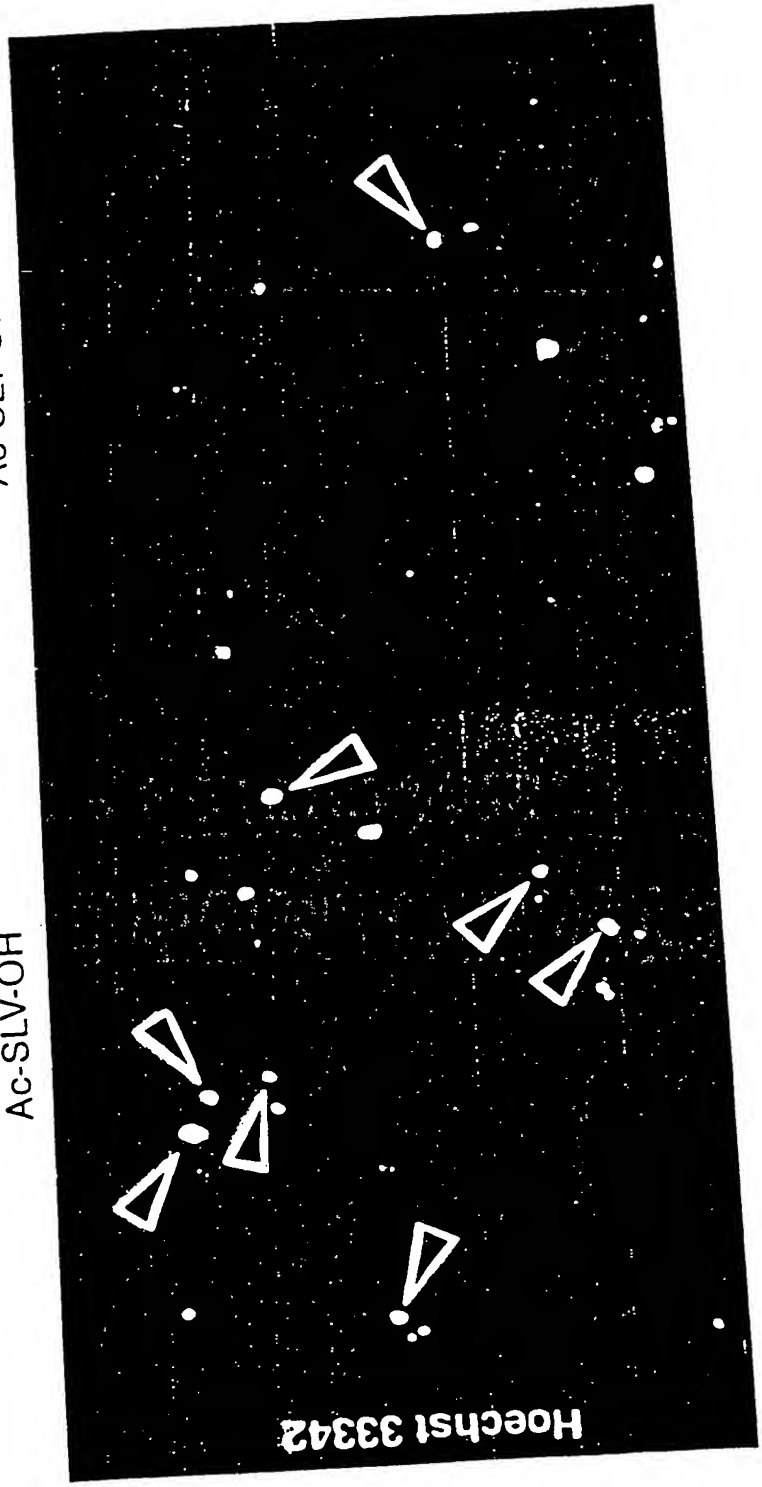


FIG. 5E
Ac-SLV-OH

FIG. 5F
Ac-SLY-OH

FIG. 6

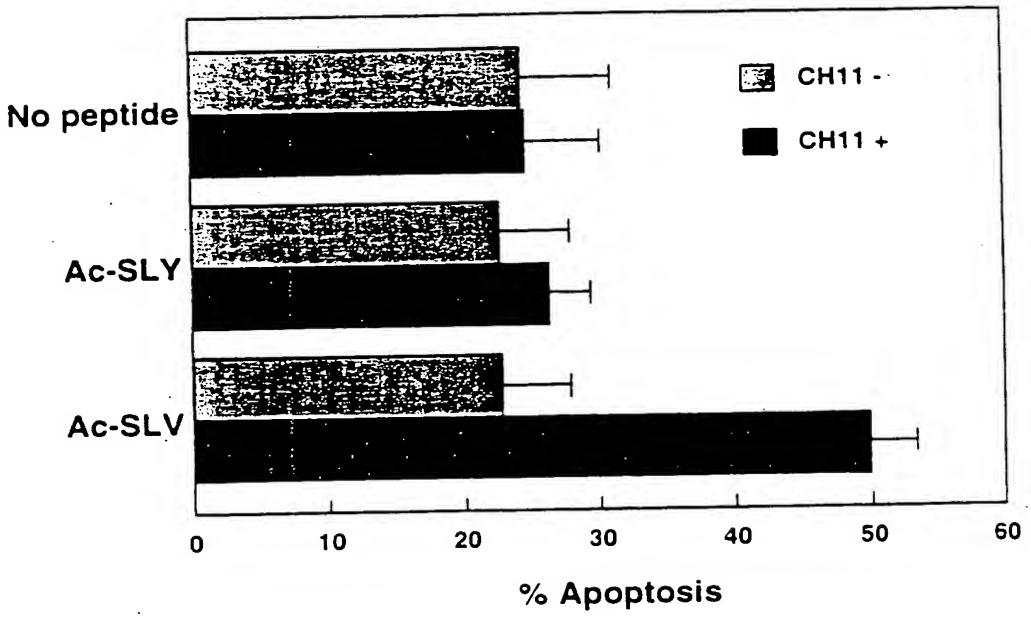


FIG. 7A

NGF Receptor

```
  1 mgagatgram dgprllllll lgvslggake acptglyths gecckacnlg egvaqpcgan
 61 qtvcepclds vtfsdvvsat epckpctecv glqsmsapcv eaddavcrca ygyyqdettg
121 rceacrvcea gsglvfscqd kqntvceecp dgtysdeanh vdpclpctvc edterqlrec
181 trwadaecee ipgrwitrst ppegsdstap stqepeappe qdliastvag vvttvmgssq
241 pvvtrgttdn lipvycsila avvvglvayi afkrwnsckq nkqgansrpv nqtpppegek
301 lhsdsgisvd sqslhdqqph tqtasgqalk gdgglysslp pakreevekl lngsagdtwr
361 hlagelgyqp ehidsfthea cpvrallasw atqdsatlda llaalrriqr adlveslcse
421 statspv
```

FIG. 7B

CD4 Receptor

```
  1 mnrgvpfrhl llvlqlallp aatqgkkvvl gkkgdtvelt ctasqkksiq fhwknsnqik
 61 ilgnqgsflt kgpsklndra dsrrslwdqg nfpliiknlk iedsdtyice vedqkeevql
121 lvfgltansd thllqgqslt ltlesppgss psvqcrsprg kniqggktls vsqlelqdsg
181 twtctvlqnq kkvefkidiv vlafqkassi vykkegeqve fsfplaftve kltgsgelww
241 qaerasssks witfdlknke vsvkrvtqdp klqmgkklpl hltlpqalpq yagsgnltla
301 leaktgklhq evnlvvmrat qlqknltcev wgptspklml slklenkeak vskrekavwv
361 lnpeagmwqc llsdsgqvll esnikvlptw stpvqpmali vlggvaglll figlgiffcv
421 rcrhrrrqae rmsqikrlls ekktcqcphr fqktcspi
```

FIG. 7C

Species	C-terminal sequences of NGFR (p75)	Binding activity of FAP-1
Human	tSESTATSPV-COOH	+
Rat	tSESTATSPV-COOH	+
Chicken	tSESTATSPV-COOH	+

FIG. 7D

```
  1 mnsgvamkyg ndssaelsel hsaalaslkg divelnkrlq qtererdlle kklakaqceq
 61 shlmrehedv qerttlryee ritelhsvia elnkkidrlq gttireedey selrselsqs
121 qhevnedsrs mdqdqtsvsi penqstmvta dmdncsdins elqrvitgle nvvcgrkkss
181 cslsvaevdr hieqlttase hcdlaiktve eiegvlgrdl ypnlaeersr wekelaglre
241 enesltamlc skeeelnrtk atmnaireer drlrrrvrel qtrlqsvqat gpsspgrlts
301 tnrpinpstg elstssssnd ipiakiaerv klsktrsess ssdrpvlgse issigvsssv
361 aehlahslqd csniqeifqt lyshgsaise skirefevet erlnsriehl ksqndlltit
421 leecksnaer msmlvgkyes natairlalq yseqcieaye lllalaeseq slilgqfraa
481 gvgsspgdqs gdenitqmlk rahdcrktae naakallmkl dgscggafav agcsvqpwes
541 lssnshtstt sstasscdte ftkedeqrlk dyiqqlkndr aavkltmlel esihidplsy
601 dvkprgdsqr ldlenavlmq elmamkeema elkaqlylle kekkalelkl streaqeqay
661 lvhiehlkse veeqkeqrmr slsstssgsk dkpgkecada aspalslael rttcsenela
721 aeftnairre kklkarvqel vsalerltks seirhqqsae fvndlkrans nlvaayekak
781 kkhqnklkkl esqmmamver hetqvrmlkq rialleeens rphtnetml
```

FIG. 7E

```
  1 madvfpgnds tasqdvanrf arkgalrqkn vhevkdhkfi arffkqptfc shctdfiwgf
 61 gkqgfqcqvc cfvvhkrcne fvtfscpgad kgpdtddprs khkfkihtyg sptfcdhcgs
121 llyglihqgm kcdtcdmnvh kqcvinvpsl cgmdhtekrg riylkaevad eklhvtvrda
181 knlipmdpng lsdpyvklkl ipdpkneskq ktktirstln pqwnesftfk lkpsdkdrrl
241 sveiwdwdrt trndfmgsls fgvselmkmp asgwykllnq eegeyynvpi pegdeegnme
301 lrqkfekakl gpagnkvisp sedrkqpsnn ldrvkltdfn flmvlgkgsf gkvmladrkg
361 teelyaikil kkdvviqddd vectmvekrv lalldkppfl tqlhscfqtv drlyfvmeyv
421 nggdlmyhiq qvgkfkepqa vfyaaeisig lfflhkrgii yrdlkldnvm ldseghikia
481 dfgmckehmm dgvttrtfcg tpdyiapeii ayqpygksvd wwaygvllye mlagqppfdg
541 ededelfqsi mehnvsypks lskeavsick glmtkhpakr lgcgpegerd vrehaffrri
601 dweklenrei qppfkpkvcg kgaenfdkff trgqpvltpp dqlvianidq sdfegfsyvn
661 pqfvhpilqn ax
```

FIG. 7F

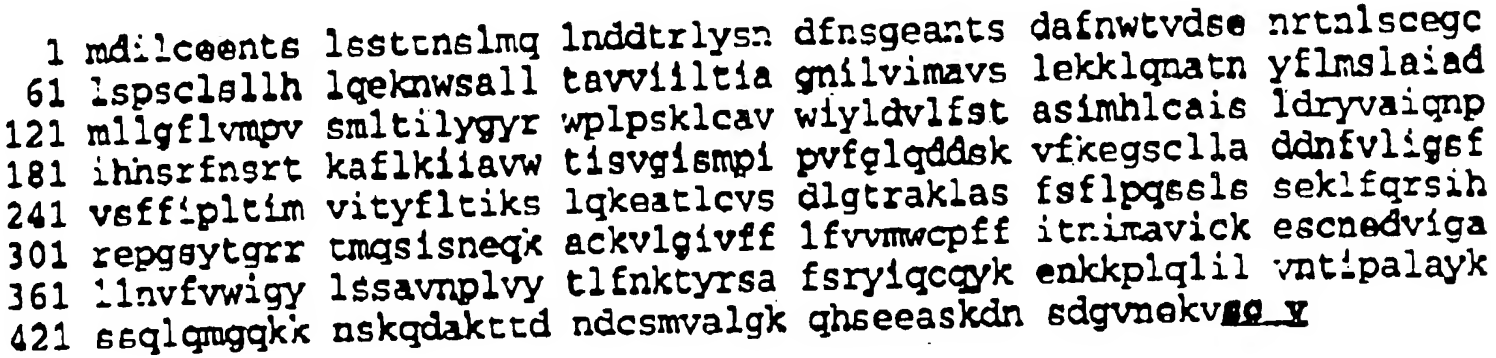


FIG. 7G

```
  1 malsyrvsel qstipehilq stfvhvissn wsglqtesip eemkqiveeq gnklhwaall
 61 ilmvliiptig gntlvilavs lekklqyatn yflmslavad llvglfvmpi alltimfeam
121 wplplvlcpa wlfldvlfst asimhlcais vdryiaikkp iqanqynsra tafikitvvw
181 lisigiaipv pikgietdvd npnnitcvlt kerfgdfmlf gslaafftpl aimivtyflt
241 ihalqkkayl vknkppqrlt witvstvfqr detpcsspek vamldgsrkd kalpnsgdet
301 lmrrtstigk ksvqtiseneq raskvlgivf flfllmwcpf fitnitlvlc dscnqttlqm
361 lleifvwigy vssgvnplvy tlfnktfrda fgryitcnyr atksvktlrk rsskiyfrnp
421 maenskffkk hgirnginpa myqspmrlrs stiqsssiil idtlllltene gdkteeqvsy
481 y
```

FIG. 7H

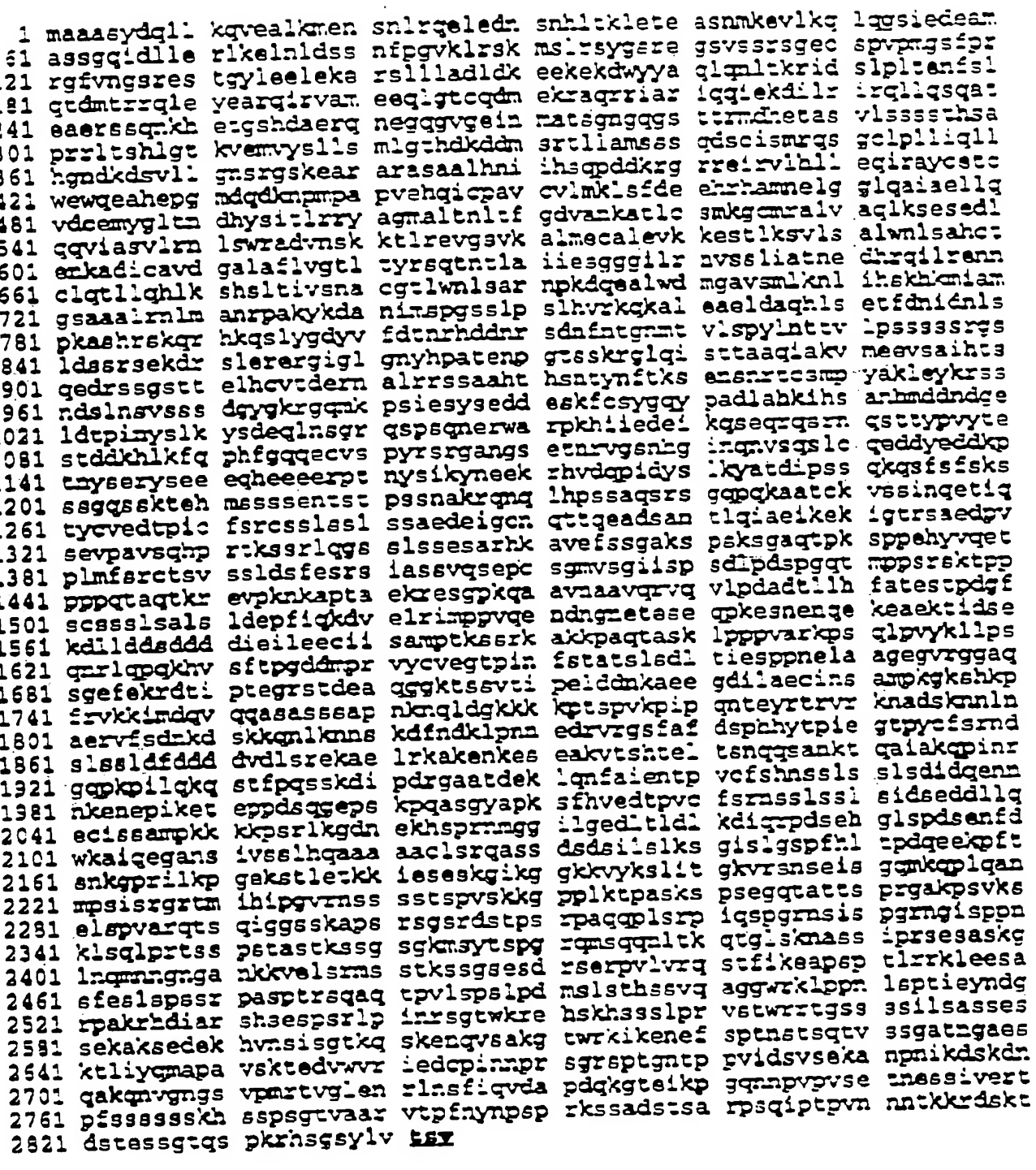

1 maaasydql1 kqvealkmen snlrqeledr snhltklete asnmkevlkq lqgsiedeam
61 assgqidlle rlkelnldss nfpgvklrsk mslrsygere gsvssrsgec spvpmgsfpr
121 rgfvngsres tgyleeleka rsllladldk eekekdwyya qlqmltkrid slpltenfsl
181 qtdmtrrqle yearqirvam eeqlgtcqdm ekraqrriar iqqiekdilr irqllqsqat
241 eaersssqnkh etgshdaerq negqgvgein ratsgngqgs ttrmdhetas vlssssthsa
301 prrltshlgt kvemvyslls mlgthdkddm srtliamsss qdscismrqs gelplliqll
361 hgndkdsvli gmsrgskear arasaalhni ihsqpddkrg rreirvihli eqiraycstc
421 wewqeahepg mdqdkmpmpa pvehqicpav cvlmklsfde ehrhamnelg glqaiaellq
481 vdcemygltm dhysitlrry agmaltnltf gdvamkatlc smkgcmralv aqlksesedl
541 qqviasvlrn lswradvnsk ktlrevgsvk almecalevk kestlksvls alwnlsahct
601 emkadicavd galaflvgtl tyrsqtntla iiesgggilr nvssliatne dhrqilrenn
661 clqtliqhlk shsltivsna cgtlwnlsar npkdqealwd mgavsmlknl ihskhkmiam
721 gsaaalrnlm anrpakykda nimspgsslp slhvrkqkal eaeldaqhls etfdnidnls
781 pkashrskqr hkqslygdyv fdtnrhddnr sdnfntgnmt vlspylnttv lpsssssrqs
841 ldssrsekdr slerergigl gnyhpatenp gtsskrglqi sttaaqlakv meevsaihts
901 qedrssgstt elhcvtdern alrrssaaht hsntynftks ensnrtcsmp yakleykrss
961 ndslnsvsss dqygkrgqmk psiesysedd eskfcsyggy padlahkihs arhmddndge
1021 ldtpimyslk ysdeqlnsgr qspsqnerwa rpkhiiedei kqseqrqsrn qsttypvyte
1081 stddkhlkfq phfgqqecvs pyrsrgangs etnrvgsnig inqmvsqslc qeddyeddkp
1141 tnyserysee eqheeeeerpt nysikyneek rhvdqpidys lkyatdipss qkqsfsfsks
1201 ssgqsskteh messsentst pssnakrqnq lhpssaqsrs gqpqkaatck vssinqetiq
1261 tycvedtpic fsrcsslssl ssaedeigcn qttqeadsan tlqiaeikek igtrsaedpv
1321 sevpavsqhp rtkssrlqgs slssesarhk avefssgaks psksgaqtpk sppehyvqet
1381 plmfsrctsv ssldsfesrs iassvqsepc sgmvsgilsp sdlpdspgqt mppsrsktpp
1441 pppqtaqtkr evpknkapta ekresgpkqa avnaavqrvq vlpdadtilh fatestpdgf
1501 scsssslsals ldepfiqkdv elrimppvqe ndngmetase qpkesnenqe keaektidse
1561 kdilddsddd dieileecii samptkssrk akkpaqtask lpppvarkps qlpvyklips
1621 qmrlqpqkhv sftpgddmpr vycvegtpin fstatsladl tiesppnela agegvrggaq
1681 sgefekrdti ptegrstdea qggktssvti peiddmkaee gdilaecins ampkgkshkp
1741 frvkkimdqv qqasasssap nkmqldgkkk kptspvkpip qnteyrtrvr knadskmnln
1801 aervfsdmkd skkqmlkmns kdfndklpnn edrvrgsfaf dsphhytpie gtpycfsrnd
1861 slssldfddd dvdlsrekae lrkakenkes eakvtshtel tsnqqsankt qaiakqpinr
1921 gqpkpilqkq stfpqsskdi pdrgaatdek lqnfaientp vcfshnssls slsdidqenn
1981 nkenepiket eppdsqgeps kpqasgyapk sfhvedtpvc fsrnsslssi sidseddllq
2041 ecissampkk kkpsrlkgdn ekhsprrngg illgedltld kdiqrpdseh glspdsenfd
2101 wkaiqegans ivsslhqaaa aaclsrqass dsdsiilslks gislgspfnl tpdqeekpft
2161 snkgprilkp gekstletkk ieseskgikg gkkvykslit gkvrsnseis gqmkqplqan
2221 mpsisrgrtm ihipgvrnss sstspvskkg pplktpasks pseggtatts prgakpsvks
2281 elspvarqts qiggsskaps rsgsrdstps rpaqqplsrp iqspgrnsis pgrngisppn
2341 klsqlprtss pstastkssg sgkmsytspg rqmsqqnltk qtgisknass iprsesaskg
2401 lnqmnngnga nkkvelsrns stkssgsesd rserpvlvrq stfikeapsp tlrrkleesa
2461 sfeslspssr pasptrsqaq tpvlspslpd mslsthssvq aggwrklppn lsptieyndg
2521 rpakrhdiar shsespsrlp inrsgtwkre hskhssslpr vstwrrtgss ssilsasses
2581 sekaksedek hvnsisgtkq skenqvsakg twrkikenef sptnstsqtv ssgatngaes
2641 ktliyqmapa vsktedvwvr iedcpinnpr sgrsptgntp pvidsvseka npnikdskdn
2701 qakqnvgngs vpmrtvglen rlnsfiqvda pdqkgteikp gqrnpvpvse tnessivert
2761 pfsssssskh sspsgtvaar vtpfnynpsp rkssadstsa rpsqiptpvn nntkkrdskt
2821 dstessgtqs pkrhsgsylv tsy

FIG. 8

p75NGFR

(Low-affinity nerve growth factor receptor)

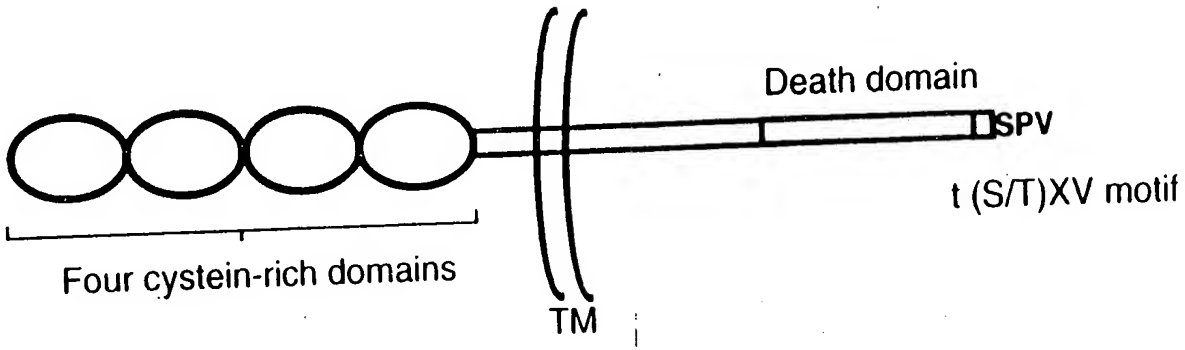


FIG. 9

	C-terminal amino acid sequence
Fas	NEIQSLV
p75NGFR	STATSPV

FIG. 10

In vitro interaction of ^{35}S-labeled FAP-1 with various receptors

— FAP-1 binds to the cytoplasmic region of p75NGFR. —

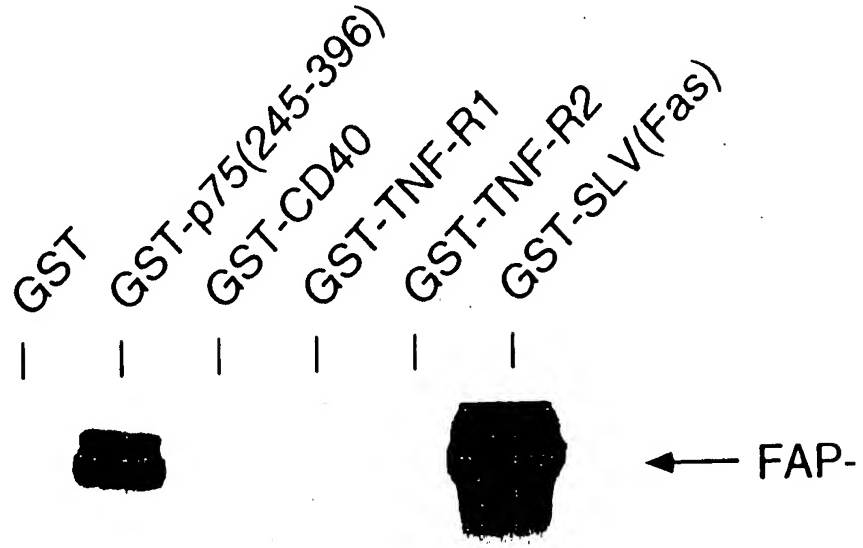
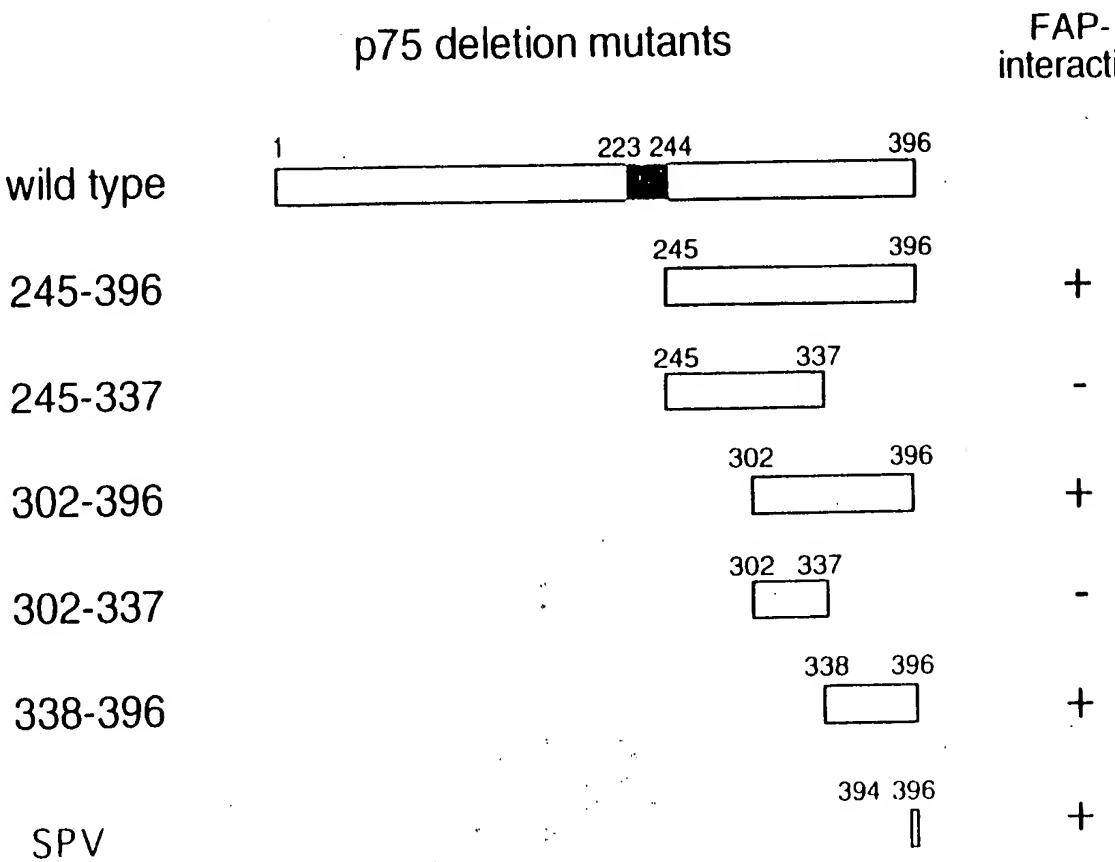


FIG. 11A

FAP-1 binds to C-terminal three amino acids SPV of p75NGFR.



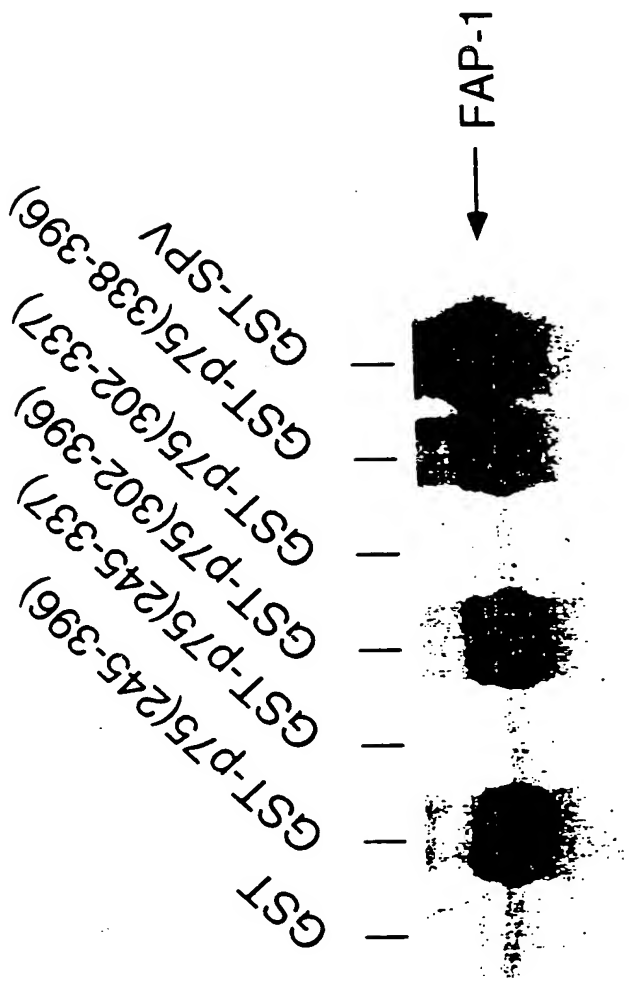


FIG. 11B

FIG. 12

FAP-1 binds to p75NGFR C-terminal cytoplasmic region in yeast.

	VP16-FAP-1	VP16-cRaf
LexA-p75NGFR(338-396)	+	-
LexA-p75NGFR(365-396)	+	-
LexA-Fas	++	-
LexA-Ras^{V12}	-	+
LexA-Lamin	-	-

FIG. 13A

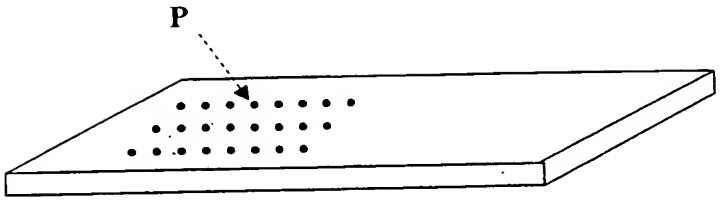


FIG. 13B

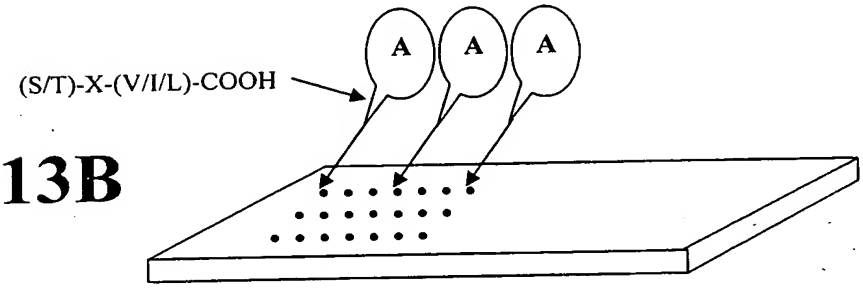


FIG. 13C

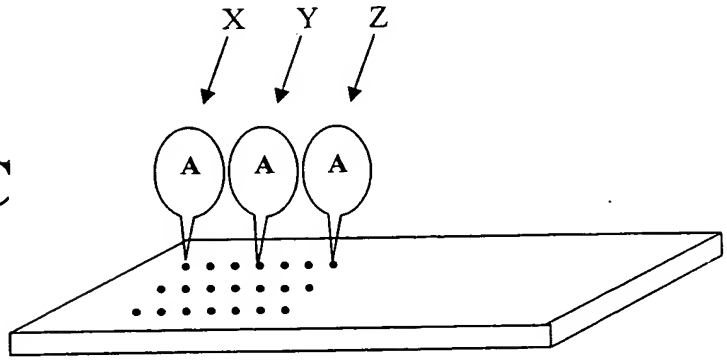


FIG. 14A

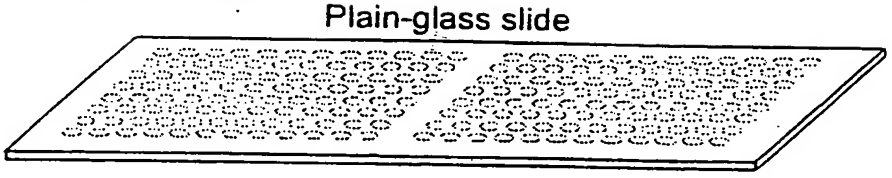


FIG. 14B

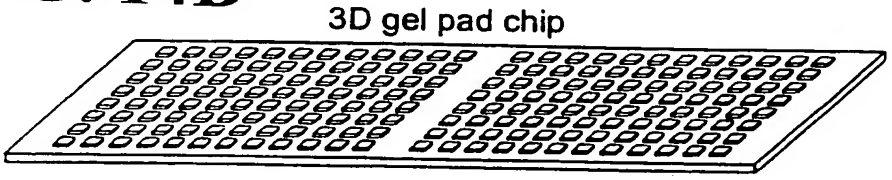


FIG. 14C